$$
\begin{prooftree}
\AxiomC{$\alpha \to \alpha$}
\AxiomC{$\gamma \to \gamma$}
\RightLabel{$(\supset\to)$}
\BinaryInfC{$\alpha \supset \gamma, \alpha \to \gamma$}
\AxiomC{$\bot \to \beta$}
\RightLabel{$(\supset\to)(e\to)(e\to)$}
\TripleInfC{$\alpha, \neg\gamma, \alpha \supset \gamma \to \beta$}
\RightLabel{$(\to\supset)$}
\UnaryInfC{$\neg\gamma, \alpha \supset \gamma \to \alpha \supset \beta$}
\AxiomC{$\gamma \supset \gamma$}
\RightLabel{$(\supset\to)(e\to)(e\to)$}
\TripleInfC{$\neg\gamma, \alpha \supset \gamma, (\alpha \supset \beta) \supset \gamma \to \gamma$}
\AxiomC{$\bot \to \bot$}
\RightLabel{$(\supset\to)$}
\BinaryInfC{$\neg\gamma, \neg\gamma, \alpha \supset \gamma, (\alpha \supset \beta) \supset \gamma \to \bot$}
\RightLabel{$(c\to)$}
\UnaryInfC{$\neg\gamma, \alpha \supset \gamma, (\alpha \supset \beta) \supset \gamma \to \bot$}
\RightLabel{$(\to\supset)$}
\UnaryInfC{$\alpha \supset \gamma, (\alpha \supset \beta) \supset \gamma \to \neg\neg\gamma$}
\RightLabel{$(\to\supset)$}
\UnaryInfC{$(\alpha \supset \beta) \supset \gamma \to (\alpha \supset \gamma) \supset \neg\neg\gamma$}
\RightLabel{$(\to\supset)$}
\UnaryInfC{$\to ((\alpha \supset \beta) \supset \gamma) \supset (\alpha \supset \gamma) \supset \neg\neg\gamma$}
\end{prooftree}
$$