p-compose-associative[11,40]

$\forall A, B, C, D$:Type, h:$(A \rightarrow (B + \text{Top}))$, g:$(B \rightarrow (C + \text{Top}))$, f:$(C \rightarrow (D + \text{Top}))$.
f o g o $h = f$ o g o $h \in A \rightarrow (D + \text{Top})$

ProofTree